



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### IDENTIFICATION:

#### 1.1. Product identifier

3M™ Flexible Foam Adhesive PN 08463

#### Product Identification Numbers

60-9800-3647-3

7100045768

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive, Two Component Flexible Foam

For Industrial or Professional use only.

#### 1.3. Supplier's details

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| <b>Address:</b>   | 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113 |
| <b>Telephone:</b> | 136 136                                                       |
| <b>E Mail:</b>    | productinfo.au@mmm.com                                        |
| <b>Website:</b>   | www.3m.com.au                                                 |

#### 1.4. Emergency telephone number

**Company Emergency Hotline:** EMERGENCY: 1800 097 146 (Australia only)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:**

07-3378-2, 07-5569-4

One or more components of this KIT is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

### TRANSPORT INFORMATION

This KIT and its components are NOT classified as Dangerous Goods.

**Marine Pollutant:**Not applicable.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Flexible Foam/Part A, 08463

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive, Two Component Flexible Foam

For Industrial or Professional use only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2.  
Serious Eye Damage/Irritation: Category 2.  
Respiratory Sensitizer: Category 1.  
Skin Sensitizer: Category 1.  
Specific Target Organ Toxicity (repeated exposure): Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for

Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

### Signal word

Danger

### Symbols

Exclamation mark |Health Hazard |

### Pictograms



### Hazard statements

|      |                                                                                     |
|------|-------------------------------------------------------------------------------------|
| H315 | Causes skin irritation.                                                             |
| H319 | Causes serious eye irritation.                                                      |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.          |
| H317 | May cause an allergic skin reaction.                                                |
| H335 | May cause respiratory irritation.                                                   |
| H372 | Causes damage to organs through prolonged or repeated exposure: respiratory system. |

### Precautionary statements

#### Prevention:

|      |                                                                        |
|------|------------------------------------------------------------------------|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                       |
| P264 | Wash thoroughly after handling.                                        |
| P270 | Do not eat, drink or smoke when using this product.                    |
| P271 | Use only outdoors or in a well-ventilated area.                        |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P284 | Wear respiratory protection.                                           |

#### Response:

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTRE or doctor/physician if you feel unwell.                                                                     |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.                                                                        |
| P342 + P311        | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.                                                  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |

#### Storage:

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

#### Disposal:

|      |                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|----------------------------------------------------------------------------------------------------------------|

### 2.3. Other assigned/identified product hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

**2.4. Other hazards which do not result in classification**

None known.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

| <b>Ingredient</b>                               | <b>CAS Nbr</b> | <b>% by Weight</b> |
|-------------------------------------------------|----------------|--------------------|
| Urethane Prepolymer                             | Trade Secret   | 30 - 60            |
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8       | 10 - 30            |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9      | 10 - 30            |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5     | < 15               |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7     | 1 - 5              |

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Isocyanates  
Carbon monoxide.  
Carbon dioxide.  
Hydrogen cyanide.

**Condition**

During combustion.  
During combustion.  
During combustion.  
During combustion.

Oxides of nitrogen.

During combustion.

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. Store away from amines.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                           | CAS Nbr    | Agency         | Limit type                                                                   | Additional comments |
|--------------------------------------|------------|----------------|------------------------------------------------------------------------------|---------------------|
| P,P'-Methylenebis(phenyl isocyanate) | 101-68-8   | ACGIH          | TWA:0.005 ppm                                                                |                     |
| P,P'-Methylenebis(phenyl isocyanate) | 101-68-8   | Australia OELs | TWA(8 hours):0.02 mg/m <sup>3</sup> ;STEL(15 minutes):0.07 mg/m <sup>3</sup> |                     |
| Free isocyanates                     | 26447-40-5 | Australia OELs | TWA(as NCO)(8 hours):0.02                                                    |                     |

|                                        |           |                         |                                                                                                         |                                           |
|----------------------------------------|-----------|-------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------|
|                                        |           |                         | mg/m <sup>3</sup> ;STEL(as NCO)(15 minutes):0.07 mg/m <sup>3</sup>                                      |                                           |
| Free isocyanates                       | 9016-87-9 | Australia OELs          | TWA(as NCO)(8 hours):0.02 mg/m <sup>3</sup> ;STEL(as NCO)(15 minutes):0.07 mg/m <sup>3</sup>            |                                           |
| Polymethylene Polyphenylene Isocyanate | 9016-87-9 | Manufacturer determined | TWA(inhalable fraction)(8 hours):0.05 mg/m <sup>3</sup> ;CEIL(inhalable fraction):0.1 mg/m <sup>3</sup> | Dermal Sensitizer, Respiratory Sensitizer |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitizer

Sk: Absorption through the skin may be a significant source of exposure.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl rubber.

Neoprene.

Nitrile rubber.

if this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber

Neoprene apron.

Apron – Nitrile

Select and use gloves according to AS/NZ 2161.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following

respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                                                         |
|---------------------------------------------------|---------------------------------------------------------|
| Physical state                                    | Liquid.                                                 |
| Specific Physical Form:                           | Paste                                                   |
| Colour                                            | Brown                                                   |
| Odour                                             | Odourless                                               |
| Odour threshold                                   | No data available.                                      |
| pH                                                | Not applicable.                                         |
| Melting point/Freezing point                      | Not applicable.                                         |
| Boiling point/Initial boiling point/Boiling range | $\geq 148.9$ °C                                         |
| Flash point                                       | $\geq 148.9$ °C [Test Method: Closed Cup]               |
| Evaporation rate                                  | Not applicable.                                         |
| Flammability (solid, gas)                         | Not applicable.                                         |
| Flammable Limits(LEL)                             | No data available.                                      |
| Flammable Limits(UEL)                             | No data available.                                      |
| Vapour pressure                                   | $\leq 186,158.4$ Pa [@ 55 °C] [Details: MITS data]      |
| Vapor Density and/or Relative Vapor Density       | 8.5 [Ref Std: AIR=1]                                    |
| Density                                           | 1.135 - 1.16 g/ml                                       |
| Relative density                                  | 1.135 - 1.16 [Ref Std: WATER=1]                         |
| Water solubility                                  | Not applicable.                                         |
| Solubility- non-water                             | No data available.                                      |
| Partition coefficient: n-octanol/water            | No data available.                                      |
| Autoignition temperature                          | No data available.                                      |
| Decomposition temperature                         | No data available.                                      |
| Viscosity/Kinematic Viscosity                     | No data available.                                      |
| Volatile organic compounds (VOC)                  | 0.1 % weight [Test Method: calculated per CARB title 2] |
| Volatile organic compounds (VOC)                  | 1 g/l [Test Method: calculated SCAQMD rule 443.1]       |
| Percent volatile                                  | 0.1 % weight                                            |
| VOC less H <sub>2</sub> O & exempt solvents       | 1 g/l [Test Method: calculated SCAQMD rule 443.1]       |
| Molecular weight                                  | No data available.                                      |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

Heat.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

**10.5 Incompatible materials**

Amines.

Alcohols.

Water

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

**10.6 Hazardous decomposition products****Substance****Condition**

None known.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1 Information on Toxicological effects****Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

**Skin contact**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Additional Health Effects:****Prolonged or repeated exposure may cause target organ effects:**

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

**Additional information:**

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                                            | Route                          | Species | Value                                          |
|-------------------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product                                 | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Polymethylene Polyphenylene Isocyanate          | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Polymethylene Polyphenylene Isocyanate          | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| Polymethylene Polyphenylene Isocyanate          | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| P,P'-Methylenebis(phenyl isocyanate)            | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| P,P'-Methylenebis(phenyl isocyanate)            | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| P,P'-Methylenebis(phenyl isocyanate)            | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| Dimethyl Siloxane, Reaction Product With Silica | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                            | Species                 | Value                     |
|-------------------------------------------------|-------------------------|---------------------------|
| Polymethylene Polyphenylene Isocyanate          | official classification | Irritant                  |
| P,P'-Methylenebis(phenyl isocyanate)            | official classification | Irritant                  |
| 1,1'-Methylenebis(Isocyanatobenzene)            | official classification | Irritant                  |
| Dimethyl Siloxane, Reaction Product With Silica | Rabbit                  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                                            | Species                 | Value                     |
|-------------------------------------------------|-------------------------|---------------------------|
| Polymethylene Polyphenylene Isocyanate          | official classification | Severe irritant           |
| P,P'-Methylenebis(phenyl isocyanate)            | official classification | Severe irritant           |
| 1,1'-Methylenebis(Isocyanatobenzene)            | official classification | Severe irritant           |
| Dimethyl Siloxane, Reaction Product With Silica | Rabbit                  | No significant irritation |

#### Skin Sensitisation

| Name                                            | Species                 | Value          |
|-------------------------------------------------|-------------------------|----------------|
| Polymethylene Polyphenylene Isocyanate          | official classification | Sensitising    |
| P,P'-Methylenebis(phenyl isocyanate)            | official classification | Sensitising    |
| 1,1'-Methylenebis(Isocyanatobenzene)            | official classification | Sensitising    |
| Dimethyl Siloxane, Reaction Product With Silica | Human and animal        | Not classified |

#### Respiratory Sensitisation

| Name                                   | Species | Value       |
|----------------------------------------|---------|-------------|
| Polymethylene Polyphenylene Isocyanate | Human   | Sensitising |
| P,P'-Methylenebis(phenyl isocyanate)   | Human   | Sensitising |

|                                      |       |             |
|--------------------------------------|-------|-------------|
| 1,1'-Methylenebis(Isocyanatobenzene) | Human | Sensitising |
|--------------------------------------|-------|-------------|

**Germ Cell Mutagenicity**

| Name                                            | Route    | Value                                                                        |
|-------------------------------------------------|----------|------------------------------------------------------------------------------|
| Polymethylene Polyphenylene Isocyanate          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| P,P'-Methylenebis(phenyl isocyanate)            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-Methylenebis(Isocyanatobenzene)            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product With Silica | In Vitro | Not mutagenic                                                                |

**Carcinogenicity**

| Name                                            | Route          | Species | Value                                                                        |
|-------------------------------------------------|----------------|---------|------------------------------------------------------------------------------|
| Polymethylene Polyphenylene Isocyanate          | Inhalation     | Rat     | Some positive data exist, but the data are not sufficient for classification |
| P,P'-Methylenebis(phenyl isocyanate)            | Inhalation     | Rat     | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Inhalation     | Rat     | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product With Silica | Not specified. | Mouse   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                                            | Route      | Value                                  | Species | Test result           | Exposure Duration    |
|-------------------------------------------------|------------|----------------------------------------|---------|-----------------------|----------------------|
| Polymethylene Polyphenylene Isocyanate          | Inhalation | Not classified for development         | Rat     | NOAEL 0.004 mg/l      | during organogenesis |
| P,P'-Methylenebis(phenyl isocyanate)            | Inhalation | Not classified for development         | Rat     | NOAEL 0.004 mg/l      | during organogenesis |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Inhalation | Not classified for development         | Rat     | NOAEL 0.004 mg/l      | during organogenesis |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                   | Route      | Target Organ(s)        | Value                            | Species                 | Test result         | Exposure Duration |
|----------------------------------------|------------|------------------------|----------------------------------|-------------------------|---------------------|-------------------|
| Polymethylene Polyphenylene Isocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| P,P'-Methylenebis(                     | Inhalation | respiratory irritation | May cause respiratory            | official classification | NOAEL Not available |                   |

|                                      |            |                        |                                  |                         |                     |  |
|--------------------------------------|------------|------------------------|----------------------------------|-------------------------|---------------------|--|
| phenyl isocyanate)                   |            |                        | irritation                       |                         |                     |  |
| 1,1'-Methylenebis(Isocyanatobenzene) | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |  |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                            | Route      | Target Organ(s)                | Value                                                          | Species | Test result         | Exposure Duration     |
|-------------------------------------------------|------------|--------------------------------|----------------------------------------------------------------|---------|---------------------|-----------------------|
| Polymethylene Polyphenylene Isocyanate          | Inhalation | respiratory system             | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL 0.004 mg/l    | 13 weeks              |
| P,P'-Methylenebis(phenyl isocyanate)            | Inhalation | respiratory system             | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL 0.004 mg/l    | 13 weeks              |
| 1,1'-Methylenebis(Isocyanatobenzene)            | Inhalation | respiratory system             | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL 0.004 mg/l    | 13 weeks              |
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation | respiratory system   silicosis | Not classified                                                 | Human   | NOAEL Not available | occupational exposure |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Exposure Levels**

Refer Section 8.1 **Control Parameters** of this Safety Data Sheet.

**Interactive Effects**

Not determined.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material            | CAS Number   | Organism | Type                                   | Exposure | Test endpoint | Test result |
|---------------------|--------------|----------|----------------------------------------|----------|---------------|-------------|
| Urethane Prepolymer | Trade Secret | N/A      | Data not available or insufficient for | N/A      | N/A           | N/A         |

|                                                 |            |                  | classification                                        |          |                                |             |
|-------------------------------------------------|------------|------------------|-------------------------------------------------------|----------|--------------------------------|-------------|
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8   | Activated sludge | Analogous Compound                                    | 3 hours  | EC50                           | >100 mg/l   |
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8   | Water flea       | Analogous Compound                                    | 24 hours | EC50                           | >1,000 mg/l |
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8   | Zebra Fish       | Analogous Compound                                    | 96 hours | LC50                           | >1,000 mg/l |
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8   | Water flea       | Analogous Compound                                    | 21 days  | NOEC                           | >=10 mg/l   |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9  | Green algae      | Analogous Compound                                    | 72 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9  | Water flea       | Analogous Compound                                    | 24 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9  | Green algae      | Analogous Compound                                    | 72 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9  | Activated sludge | Analogous Compound                                    | 3 hours  | EC50                           | >100 mg/l   |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5 | Green algae      | Estimated                                             | 72 hours | EC50                           | >1,640 mg/l |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5 | Water flea       | Estimated                                             | 24 hours | EC50                           | >1,000 mg/l |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5 | Zebra Fish       | Estimated                                             | 96 hours | LC50                           | >1,000 mg/l |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5 | Green algae      | Estimated                                             | 72 hours | NOEL                           | 1,640 mg/l  |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5 | Water flea       | Estimated                                             | 21 days  | NOEC                           | >=10 mg/l   |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7 | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | N/A         |

## 12.2. Persistence and degradability

| Material                               | CAS Number   | Test type                                      | Duration | Study Type           | Test result      | Protocol                       |
|----------------------------------------|--------------|------------------------------------------------|----------|----------------------|------------------|--------------------------------|
| Urethane Prepolymer                    | Trade Secret | Data not available-insufficient                | N/A      | N/A                  | N/A              | N/A                            |
| P,P'-Methylenebis(phenyl isocyanate)   | 101-68-8     | Analogous Compound Hydrolysis                  |          | Hydrolytic half-life | <2 hours (t 1/2) |                                |
| Polymethylene Polyphenylene Isocyanate | 9016-87-9    | Analogous Compound Aquatic Inherent Biodegrad. | 28 days  | BOD                  | 0 %BOD/ThOD      | OECD 302C - Modified MITI (II) |
| Polymethylene Polyphenylene Isocyanate | 9016-87-9    | Analogous Compound Hydrolysis                  |          | Hydrolytic half-life | 20 hours (t 1/2) |                                |
| 1,1'-Methylenebis(Isocyanatobenzene)   | 26447-40-5   | Data not available-insufficient                | N/A      | N/A                  | N/A              | N/A                            |

|                                                 |            |                                 |     |     |     |     |
|-------------------------------------------------|------------|---------------------------------|-----|-----|-----|-----|
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7 | Data not available-insufficient | N/A | N/A | N/A | N/A |
|-------------------------------------------------|------------|---------------------------------|-----|-----|-----|-----|

### 12.3 : Bioaccumulative potential

| Material                                        | CAS Number   | Test type                                             | Duration | Study Type             | Test result | Protocol                 |
|-------------------------------------------------|--------------|-------------------------------------------------------|----------|------------------------|-------------|--------------------------|
| Urethane Prepolymer                             | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| P,P'-Methylenebis(phenyl isocyanate)            | 101-68-8     | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9    | Analogous Compound BCF - Fish                         | 28 days  | Bioaccumulation factor | 200         | OECD305-Bioconcentration |
| Polymethylene Polyphenylene Isocyanate          | 9016-87-9    | Analogous Compound Bioconcentration                   |          | Log Kow                | 4.51        |                          |
| 1,1'-Methylenebis(Isocyanatobenzene)            | 26447-40-5   | Estimated BCF - Fish                                  | 28 days  | Bioaccumulation factor | 200         |                          |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

## SECTION 14: Transport Information

### Australian Dangerous Goods Code (ADG) - Road/Rail Transport

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable

**IERG:** Not applicable.

### International Air Transport Association (IATA) - Air Transport

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Australian Inventory Status:**

All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product, Please contact 3M Australia on 136 136 for further details.

**Poison Schedule:** This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

## SECTION 16: Other information

**Revision information:**

Complete document review.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**



## Safety Data Sheet

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|                        |            |                         |            |
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Flexible Foam Adhesive PN 08463, Part B

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive, Two Component Flexible Foam

For Industrial or Professional use only.

#### 1.3. Supplier's details

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| <b>Address:</b>   | 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113 |
| <b>Telephone:</b> | 136 136                                                       |
| <b>E Mail:</b>    | productinfo.au@mmm.com                                        |
| <b>Website:</b>   | www.3m.com.au                                                 |

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2.  
Serious Eye Damage/Irritation: Category 2.  
Skin Sensitizer: Category 1B.  
Germ Cell Mutagenicity: Category 2.  
Reproductive Toxicity: Category 1.  
Specific Target Organ Toxicity (single exposure): Category 2.  
Specific Target Organ Toxicity (repeated exposure): Category 2.

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

**Signal word**

Danger

**Symbols**

Exclamation mark | Health Hazard |

**Pictograms**



**Hazard statements**

|      |                                                                                            |
|------|--------------------------------------------------------------------------------------------|
| H315 | Causes skin irritation.                                                                    |
| H319 | Causes serious eye irritation.                                                             |
| H317 | May cause an allergic skin reaction.                                                       |
| H341 | Suspected of causing genetic defects.                                                      |
| H360 | May damage fertility or the unborn child.                                                  |
| H371 | May cause damage to organs: immune system   kidney/urinary tract   liver   nervous system. |
| H373 | May cause damage to organs through prolonged or repeated exposure: immune system   liver.  |

**Precautionary statements**

**Prevention:**

|       |                                                                           |
|-------|---------------------------------------------------------------------------|
| P201  | Obtain special instructions before use.                                   |
| P202  | Do not handle until all safety precautions have been read and understood. |
| P260  | Do not breathe dust/fume/gas/mist/vapours/spray.                          |
| P264  | Wash exposed skin thoroughly after handling.                              |
| P270  | Do not eat, drink or smoke when using this product.                       |
| P272  | Contaminated work clothing should not be allowed out of the workplace.    |
| P280E | Wear protective gloves.                                                   |

**Response:**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P314               | Get medical advice/attention if you feel unwell.                                                                                 |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P337 + P313        | If eye irritation persists: Get medical advice.                                                                                  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |

**Storage:**

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

**Disposal:**

|      |                                                             |
|------|-------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with applicable |
|------|-------------------------------------------------------------|

local/regional/national/international regulations.

### 2.3. Other assigned/identified product hazards

None known.

### 2.4. Other hazards which do not result in classification

Harmful to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                                      | CAS Nbr    | % by Weight |
|-------------------------------------------------|------------|-------------|
| Polypropylene Glycol Glycerol Triether          | 25791-96-2 | 30 - 60     |
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | 9082-00-2  | 30 - 60     |
| Dimethyl Siloxane, Reaction Product with Silica | 67762-90-7 | 3 - 7       |
| Dipropylene Glycol                              | 25265-71-8 | 1 - 5       |
| Water                                           | 7732-18-5  | 1 - 5       |
| Diethylene Glycol                               | 111-46-6   | 1 - 5       |
| Dibutyltin Dilaurate                            | 77-58-7    | < 2         |
| Triethylenediamine                              | 280-57-9   | 0.5 - 1.5   |
| Octamethylcyclotetrasiloxane                    | 556-67-2   | < 0.02      |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Store away from heat. Store away from areas where product may come into contact with food or pharmaceuticals.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient        | CAS Nbr  | Agency         | Limit type                             | Additional comments |
|-------------------|----------|----------------|----------------------------------------|---------------------|
| Diethylene Glycol | 111-46-6 | AIHA           | TWA:10 mg/m <sup>3</sup>               |                     |
| Diethylene Glycol | 111-46-6 | Australia OELs | TWA(8 hours):100 mg/m <sup>3</sup> (23 |                     |

|                              |          |                |                                                                                          |                                                                        |
|------------------------------|----------|----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|                              |          |                | ppm)                                                                                     |                                                                        |
| Octamethylcyclotetrasiloxane | 556-67-2 | AIHA           | TWA:10 ppm                                                                               |                                                                        |
| Tin, organic compounds       | 77-58-7  | Australia OELs | TWA(as Sn)(8 hours):0.1 mg/m <sup>3</sup> ;STEL(as Sn)(15 minutes):0.2 mg/m <sup>3</sup> | SKIN                                                                   |
| Tin, organic compounds       | 77-58-7  | ACGIH          | TWA(as Sn):0.1 mg/m <sup>3</sup> ;STEL(as Sn):0.2 mg/m <sup>3</sup>                      | A4: Not classified as human carcinogen, Danger of cutaneous absorption |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation on open containers. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Neoprene.

Nitrile rubber.

if this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Neoprene apron.

Apron – Nitrile

Select and use gloves according to AS/NZ 2161.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following

respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                          |                                                                      |
|----------------------------------------------------------|----------------------------------------------------------------------|
| <b>Physical state</b>                                    | Liquid.                                                              |
| <b>Specific Physical Form:</b>                           | Flexible Foam                                                        |
| <b>Colour</b>                                            | Black                                                                |
| <b>Odour</b>                                             | odour less                                                           |
| <b>Odour threshold</b>                                   | <i>No data available.</i>                                            |
| <b>pH</b>                                                | <i>Not applicable.</i>                                               |
| <b>Melting point/Freezing point</b>                      | <i>Not applicable.</i>                                               |
| <b>Boiling point/Initial boiling point/Boiling range</b> | <i>Not applicable.</i>                                               |
| <b>Flash point</b>                                       | $\geq 121.1$ °C [ <i>Test Method</i> : Tagliabue closed cup]         |
| <b>Evaporation rate</b>                                  | <i>Not applicable.</i>                                               |
| <b>Flammability</b>                                      | Not applicable.                                                      |
| <b>Flammable Limits(LEL)</b>                             | <i>No data available.</i>                                            |
| <b>Flammable Limits(UEL)</b>                             | <i>No data available.</i>                                            |
| <b>Vapour pressure</b>                                   | $\leq 186,158.4$ Pa [ <i>@ 55 °C</i> ] [ <i>Details</i> : MITS data] |
| <b>Relative Vapor Density</b>                            | <i>Not applicable.</i>                                               |
| <b>Density</b>                                           | 0.96 - 1.03 g/ml                                                     |
| <b>Relative density</b>                                  | 0.96 - 1.03 [ <i>Ref Std</i> : WATER=1]                              |
| <b>Water solubility</b>                                  | Moderate                                                             |
| <b>Solubility- non-water</b>                             | <i>No data available.</i>                                            |
| <b>Partition coefficient: n-octanol/water</b>            | <i>No data available.</i>                                            |
| <b>Autoignition temperature</b>                          | <i>No data available.</i>                                            |
| <b>Decomposition temperature</b>                         | <i>No data available.</i>                                            |
| <b>Kinematic Viscosity</b>                               | <i>No data available.</i>                                            |
| <b>Volatile organic compounds (VOC)</b>                  | 45 g/l [ <i>Test Method</i> : calculated SCAQMD rule 443.1]          |
| <b>Volatile organic compounds (VOC)</b>                  | 1.9 % weight [ <i>Test Method</i> : calculated per CARB title 2]     |
| <b>Percent volatile</b>                                  | 26.3 % weight                                                        |
| <b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>     | 57 g/l [ <i>Test Method</i> : calculated SCAQMD rule 443.1]          |
| <b>Molecular weight</b>                                  | <i>No data available.</i>                                            |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Particle Characteristics</b> | <i>Not applicable.</i> |
|---------------------------------|------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

None known.

**10.4. Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

| <u>Substance</u>                | <u>Condition</u> |
|---------------------------------|------------------|
| Carbon monoxide.                | Not specified.   |
| Carbon dioxide.                 | Not specified.   |
| Toxic vapour, gas, particulate. | Not specified.   |

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1 Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin contact**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Immunological effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and/or respiratory reaction, and changes in immune function. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

**Prolonged or repeated exposure may cause target organ effects:**

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and

jaundice. Immunological effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and/or respiratory reaction, and changes in immune function.

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                                            | Route                          | Species           | Value                                          |
|-------------------------------------------------|--------------------------------|-------------------|------------------------------------------------|
| Overall product                                 | Dermal                         |                   | No data available; calculated ATE >5,000 mg/kg |
| Overall product                                 | Inhalation-Dust/Mist(4 hr)     |                   | No data available; calculated ATE >12.5 mg/l   |
| Overall product                                 | Ingestion                      |                   | No data available; calculated ATE >5,000 mg/kg |
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | Dermal                         | similar compounds | LD50 > 2,000 mg/kg                             |
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 3.2 mg/l                                |
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | Ingestion                      | similar compounds | LD50 > 5,000 mg/kg                             |
| Polypropylene Glycol Glycerol Triether          | Dermal                         | Rat               | LD50 > 2,000 mg/kg                             |
| Polypropylene Glycol Glycerol Triether          | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 50 mg/l                                 |
| Polypropylene Glycol Glycerol Triether          | Ingestion                      | Rat               | LD50 4,600 mg/kg                               |
| Dimethyl Siloxane, Reaction Product with Silica | Dermal                         | Rabbit            | LD50 > 5,000 mg/kg                             |
| Dimethyl Siloxane, Reaction Product with Silica | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 0.691 mg/l                              |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion                      | Rat               | LD50 > 5,110 mg/kg                             |
| Dipropylene Glycol                              | Dermal                         | Rabbit            | LD50 > 5,010 mg/kg                             |
| Dipropylene Glycol                              | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 2.34 mg/l                               |
| Dipropylene Glycol                              | Ingestion                      | Rat               | LD50 > 5,010 mg/kg                             |
| Dibutyltin Dilaurate                            | Dermal                         | Rat               | LD50 > 2,000 mg/kg                             |
| Dibutyltin Dilaurate                            | Ingestion                      | Rat               | LD50 1,290 mg/kg                               |
| Diethylene Glycol                               | Ingestion                      | Human             | LD50 estimated to be 300 - 2,000 mg/kg         |
| Diethylene Glycol                               | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 4.6 mg/l                                |
| Triethylenediamine                              | Dermal                         | Rabbit            | LD50 > 3,200 mg/kg                             |
| Triethylenediamine                              | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 5.05 mg/l                               |
| Triethylenediamine                              | Ingestion                      | Rat               | LD50 1,870 mg/kg                               |
| Octamethylcyclotetrasiloxane                    | Dermal                         | Rat               | LD50 > 2,400 mg/kg                             |
| Octamethylcyclotetrasiloxane                    | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 36 mg/l                                   |
| Octamethylcyclotetrasiloxane                    | Ingestion                      | Rat               | LD50 > 4,800 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                            | Species           | Value                     |
|-------------------------------------------------|-------------------|---------------------------|
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | similar compounds | Minimal irritation        |
| Polypropylene Glycol Glycerol Triether          | Rabbit            | No significant irritation |
| Dimethyl Siloxane, Reaction Product with Silica | Rabbit            | No significant irritation |
| Dipropylene Glycol                              | Rabbit            | No significant irritation |
| Dibutyltin Dilaurate                            | Rabbit            | Corrosive                 |
| Diethylene Glycol                               | Rabbit            | No significant irritation |
| Triethylenediamine                              | Rabbit            | Mild irritant             |
| Octamethylcyclotetrasiloxane                    | Rabbit            | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                            | Species           | Value                     |
|-------------------------------------------------|-------------------|---------------------------|
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | similar compounds | Mild irritant             |
| Polypropylene Glycol Glycerol Triether          | Rabbit            | Mild irritant             |
| Dimethyl Siloxane, Reaction Product with Silica | Rabbit            | No significant irritation |
| Dipropylene Glycol                              | Rabbit            | No significant irritation |
| Dibutyltin Dilaurate                            | Rabbit            | Corrosive                 |
| Diethylene Glycol                               | Rabbit            | Mild irritant             |
| Triethylenediamine                              | Rabbit            | Corrosive                 |
| Octamethylcyclotetrasiloxane                    | Rabbit            | No significant irritation |

**Skin Sensitisation**

| Name                                            | Species           | Value          |
|-------------------------------------------------|-------------------|----------------|
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | similar compounds | Not classified |
| Dimethyl Siloxane, Reaction Product with Silica | Human and animal  | Not classified |
| Dipropylene Glycol                              | Guinea pig        | Not classified |
| Dibutyltin Dilaurate                            | Guinea pig        | Sensitising    |
| Diethylene Glycol                               | Guinea pig        | Not classified |
| Octamethylcyclotetrasiloxane                    | Human and animal  | Not classified |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                                            | Route    | Value                                                                        |
|-------------------------------------------------|----------|------------------------------------------------------------------------------|
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | In Vitro | Not mutagenic                                                                |
| Dimethyl Siloxane, Reaction Product with Silica | In Vitro | Not mutagenic                                                                |
| Dipropylene Glycol                              | In Vitro | Not mutagenic                                                                |
| Dipropylene Glycol                              | In vivo  | Not mutagenic                                                                |
| Dibutyltin Dilaurate                            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dibutyltin Dilaurate                            | In vivo  | Mutagenic                                                                    |
| Diethylene Glycol                               | In Vitro | Not mutagenic                                                                |
| Diethylene Glycol                               | In vivo  | Not mutagenic                                                                |
| Octamethylcyclotetrasiloxane                    | In vivo  | Not mutagenic                                                                |
| Octamethylcyclotetrasiloxane                    | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                            | Route          | Species | Value                                                                        |
|-------------------------------------------------|----------------|---------|------------------------------------------------------------------------------|
| Dimethyl Siloxane, Reaction Product with Silica | Not specified. | Mouse   | Some positive data exist, but the data are not sufficient for classification |

|                              |            |                         |                                                                              |
|------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| Dipropylene Glycol           | Ingestion  | Multiple animal species | Not carcinogenic                                                             |
| Diethylene Glycol            | Ingestion  | Rat                     | Not carcinogenic                                                             |
| Octamethylcyclotetrasiloxane | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                                            | Route      | Value                                  | Species | Test result           | Exposure Duration          |
|-------------------------------------------------|------------|----------------------------------------|---------|-----------------------|----------------------------|
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation               |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation               |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis       |
| Dipropylene Glycol                              | Ingestion  | Not classified for development         | Rat     | NOAEL 5,000 mg/kg/day | during organogenesis       |
| Dibutyltin Dilaurate                            | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 2 mg/kg/day     | prematuring into lactation |
| Dibutyltin Dilaurate                            | Ingestion  | Toxic to development                   | Rat     | NOAEL 2.5 mg/kg/day   | during gestation           |
| Diethylene Glycol                               | Ingestion  | Not classified for male reproduction   | Mouse   | NOAEL 6,125 mg/kg/day | 2 generation               |
| Diethylene Glycol                               | Ingestion  | Not classified for female reproduction | Mouse   | NOAEL 3,062 mg/kg/day | 2 generation               |
| Diethylene Glycol                               | Ingestion  | Not classified for development         | Rat     | NOAEL 1,120 mg/kg/day | during organogenesis       |
| Octamethylcyclotetra siloxane                   | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 8.5 mg/l        | 2 generation               |
| Octamethylcyclotetra siloxane                   | Inhalation | Not classified for development         | Rabbit  | NOAEL 6 mg/l          | during organogenesis       |
| Octamethylcyclotetra siloxane                   | Ingestion  | Not classified for development         | Rabbit  | NOAEL 100 mg/kg       | during organogenesis       |
| Octamethylcyclotetra siloxane                   | Inhalation | Toxic to female reproduction           | Rat     | NOAEL 3.6 mg/l        | 2 generation               |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                 | Route     | Target Organ(s)                                | Value                             | Species | Test result         | Exposure Duration      |
|----------------------|-----------|------------------------------------------------|-----------------------------------|---------|---------------------|------------------------|
| Dibutyltin Dilaurate | Ingestion | immune system                                  | Causes damage to organs           | Rat     | LOAEL 5 mg/kg       |                        |
| Diethylene Glycol    | Ingestion | liver   nervous system   kidney and/or bladder | Causes damage to organs           | Human   | NOAEL Not available | poisoning and/or abuse |
| Diethylene Glycol    | Ingestion | central nervous system depression              | May cause drowsiness or dizziness | Human   | NOAEL Not available | poisoning and/or abuse |

### Specific Target Organ Toxicity - repeated exposure

| Name                                            | Route      | Target Organ(s)                                                                                                                                                    | Value                                                                        | Species | Test result           | Exposure Duration     |
|-------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------|-----------------------|
| Dimethyl Siloxane, Reaction Product with Silica | Inhalation | respiratory system   silicosis                                                                                                                                     | Not classified                                                               | Human   | NOAEL Not available   | occupational exposure |
| Dipropylene Glycol                              | Ingestion  | respiratory system                                                                                                                                                 | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 470 mg/kg/day   | 105 weeks             |
| Dipropylene Glycol                              | Ingestion  | heart   endocrine system   liver                                                                                                                                   | Not classified                                                               | Rat     | NOAEL 3,040 mg/kg/day | 105 weeks             |
| Dipropylene Glycol                              | Ingestion  | kidney and/or bladder                                                                                                                                              | Not classified                                                               | Rat     | NOAEL 115 mg/kg/day   | 105 weeks             |
| Dipropylene Glycol                              | Ingestion  | skin   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   vascular system                          | Not classified                                                               | Rat     | NOAEL 3,040 mg/kg/day | 105 weeks             |
| Dibutyltin Dilaurate                            | Ingestion  | liver                                                                                                                                                              | Causes damage to organs through prolonged or repeated exposure               | Rat     | NOAEL 2 mg/kg/day     | 2 weeks               |
| Dibutyltin Dilaurate                            | Ingestion  | immune system                                                                                                                                                      | Causes damage to organs through prolonged or repeated exposure               | Rat     | NOAEL 0.3 mg/kg/day   | 28 days               |
| Diethylene Glycol                               | Ingestion  | kidney and/or bladder                                                                                                                                              | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 300 mg/kg/day   | 98 days               |
| Diethylene Glycol                               | Ingestion  | hematopoietic system   liver   heart   endocrine system   gastrointestinal tract   immune system   muscles   nervous system   respiratory system   vascular system | Not classified                                                               | Rat     | NOAEL 3,000 mg/kg/day | 98 days               |
| Octamethylcy clotetrasiloxane                   | Dermal     | hematopoietic system                                                                                                                                               | Not classified                                                               | Rabbit  | NOAEL 960 mg/kg/day   | 3 weeks               |
| Octamethylcy clotetrasiloxane                   | Inhalation | liver                                                                                                                                                              | Not classified                                                               | Rat     | NOAEL 8.5 mg/l        | 13 weeks              |
| Octamethylcy clotetrasiloxane                   | Inhalation | endocrine system   immune system   kidney and/or                                                                                                                   | Not classified                                                               | Rat     | NOAEL 8.5 mg/l        | 2 generation          |

|                                      |            |                         |                |     |                          |          |
|--------------------------------------|------------|-------------------------|----------------|-----|--------------------------|----------|
|                                      |            | bladder                 |                |     |                          |          |
| Octamethylcy<br>clotetrasiloxa<br>ne | Inhalation | hematopoietic<br>system | Not classified | Rat | NOAEL 8.5<br>mg/l        | 13 weeks |
| Octamethylcy<br>clotetrasiloxa<br>ne | Ingestion  | liver                   | Not classified | Rat | NOAEL 1,600<br>mg/kg/day | 2 weeks  |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

**Interactive Effects**

Not Determined

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Chronic aquatic hazard:**

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

| Material                                                | CAS Number | Organism         | Type                                                        | Exposure   | Test endpoint | Test result |
|---------------------------------------------------------|------------|------------------|-------------------------------------------------------------|------------|---------------|-------------|
| Glycerol<br>Poly(Oxyethylene,<br>Oxypropylene)<br>Ether | 9082-00-2  | N/A              | Data not available<br>or insufficient for<br>classification | N/A        | N/A           | N/A         |
| Polypropylene<br>Glycol Glycerol<br>Triether            | 25791-96-2 | Golden Orfe      | Experimental                                                | 96 hours   | LC50          | >1,000 mg/l |
| Polypropylene<br>Glycol Glycerol<br>Triether            | 25791-96-2 | Green algae      | Experimental                                                | 72 hours   | ErC50         | >100 mg/l   |
| Polypropylene<br>Glycol Glycerol<br>Triether            | 25791-96-2 | Water flea       | Experimental                                                | 48 hours   | EC50          | >100 mg/l   |
| Polypropylene<br>Glycol Glycerol<br>Triether            | 25791-96-2 | Green algae      | Experimental                                                | 72 hours   | NOEC          | >100 mg/l   |
| Dimethyl Siloxane,<br>Reaction Product<br>with Silica   | 67762-90-7 | N/A              | Data not available<br>or insufficient for<br>classification | N/A        | N/A           | N/A         |
| Diethylene Glycol                                       | 111-46-6   | Activated sludge | Experimental                                                | 30 minutes | EC20          | >1,995 mg/l |
| Diethylene Glycol                                       | 111-46-6   | Bacteria         | Experimental                                                | 16 hours   | LOEC          | 8,000 mg/l  |
| Diethylene Glycol                                       | 111-46-6   | Fathead minnow   | Experimental                                                | 96 hours   | LC50          | 75,200 mg/l |
| Diethylene Glycol                                       | 111-46-6   | Water flea       | Experimental                                                | 48 hours   | LC50          | 48,900 mg/l |
| Diethylene Glycol                                       | 111-46-6   | Green algae      | Analogous<br>Compound                                       | 72 hours   | NOEC          | 100 mg/l    |
| Diethylene Glycol                                       | 111-46-6   | Water flea       | Experimental                                                | 7 days     | NOEC          | 8,590 mg/l  |
| Dipropylene Glycol                                      | 25265-71-8 | Goldfish         | Experimental                                                | 96 hours   | LC50          | >5,000 mg/l |

|                              |            |                  |                      |          |                                |                                |
|------------------------------|------------|------------------|----------------------|----------|--------------------------------|--------------------------------|
| Dipropylene Glycol           | 25265-71-8 | Green algae      | Experimental         | 72 hours | EC50                           | >100 mg/l                      |
| Dipropylene Glycol           | 25265-71-8 | Water flea       | Experimental         | 48 hours | EC50                           | >100 mg/l                      |
| Dipropylene Glycol           | 25265-71-8 | Green algae      | Experimental         | 72 hours | NOEC                           | 100 mg/l                       |
| Dipropylene Glycol           | 25265-71-8 | Bacteria         | Experimental         | 18 hours | EC10                           | 1,000 mg/l                     |
| Dipropylene Glycol           | 25265-71-8 | Bobwhite quail   | Experimental         | 14 days  | LD50                           | >2,000 mg per kg of bodyweight |
| Dibutyltin Dilaurate         | 77-58-7    | Zebra Fish       | Endpoint not reached | 96 hours | LC50                           | >100 mg/l                      |
| Dibutyltin Dilaurate         | 77-58-7    | Green algae      | Experimental         | 72 hours | No tox obs at lmt of water sol | >100 mg/l                      |
| Dibutyltin Dilaurate         | 77-58-7    | Water flea       | Experimental         | 48 hours | IC50                           | 0.17 mg/l                      |
| Dibutyltin Dilaurate         | 77-58-7    | Activated sludge | Experimental         | 3 hours  | EC50                           | >1,000 mg/l                    |
| Triethylenediamine           | 280-57-9   | Bacteria         | Experimental         | 17 hours | EC50                           | 356 mg/l                       |
| Triethylenediamine           | 280-57-9   | Common Carp      | Experimental         | 96 hours | LC50                           | >100 mg/l                      |
| Triethylenediamine           | 280-57-9   | Green algae      | Experimental         | 72 hours | ErC50                          | 180 mg/l                       |
| Triethylenediamine           | 280-57-9   | Water flea       | Experimental         | 48 hours | EC50                           | >100 mg/l                      |
| Triethylenediamine           | 280-57-9   | Green algae      | Experimental         | 72 hours | ErC10                          | 79 mg/l                        |
| Octamethylcyclotetrasiloxane | 556-67-2   | Blackworm        | Experimental         | 28 days  | NOEC                           | 0.73 mg/kg (Dry Weight)        |
| Octamethylcyclotetrasiloxane | 556-67-2   | Midge            | Experimental         | 14 days  | LC50                           | >170 mg/kg (Dry Weight)        |
| Octamethylcyclotetrasiloxane | 556-67-2   | Mysid Shrimp     | Experimental         | 96 hours | LC50                           | >0.0091 mg/l                   |
| Octamethylcyclotetrasiloxane | 556-67-2   | Rainbow trout    | Experimental         | 96 hours | LC50                           | >0.022 mg/l                    |
| Octamethylcyclotetrasiloxane | 556-67-2   | Water flea       | Experimental         | 48 hours | EC50                           | >0.015 mg/l                    |
| Octamethylcyclotetrasiloxane | 556-67-2   | Rainbow trout    | Experimental         | 93 days  | NOEC                           | 0.0044 mg/l                    |
| Octamethylcyclotetrasiloxane | 556-67-2   | Water flea       | Experimental         | 21 days  | NOEC                           | 0.015 mg/l                     |
| Octamethylcyclotetrasiloxane | 556-67-2   | Activated sludge | Experimental         | 3 hours  | EC50                           | >10,000 mg/l                   |

## 12.2. Persistence and degradability

| Material                                        | CAS Number | Test type                                | Duration | Study Type                     | Test result                       | Protocol                            |
|-------------------------------------------------|------------|------------------------------------------|----------|--------------------------------|-----------------------------------|-------------------------------------|
| Glycerol Poly(Oxyethylene, Oxypropylene) Ether  | 9082-00-2  | Modeled Biodegradation                   | 28 days  | BOD                            | 20 %BOD/ThOD                      | Catalogic™                          |
| Polypropylene Glycol Glycerol Triether          | 25791-96-2 | Experimental Biodegradation              | 28 days  | CO2 evolution                  | 38 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2   |
| Dimethyl Siloxane, Reaction Product with Silica | 67762-90-7 | Data not available-insufficient          | N/A      | N/A                            | N/A                               | N/A                                 |
| Diethylene Glycol                               | 111-46-6   | Experimental Biodegradation              | 28 days  | Dissolv. Organic Carbon Deplet | 91.8 %removal of DOC              | OECD 301A - DOC Die Away Test       |
| Dipropylene Glycol                              | 25265-71-8 | Experimental Biodegradation              | 28 days  | BOD                            | 84.4 %BOD/ThOD                    | OECD 301F - Manometric respirometry |
| Dipropylene Glycol                              | 25265-71-8 | Experimental Aquatic Inherent Biodegrad. | 42 days  | Dissolv. Organic Carbon Deplet | 83.6 %removal of DOC              | OECD 302A - Modified SCAS Test      |
| Dipropylene Glycol                              | 25265-71-8 | Experimental Biodegradation              | 64 days  | Dissolv. Organic Carbon Deplet | 23.6 %removal of DOC              | OECD 306(Misc)-Biodegrad. Seaw      |
| Dibutyltin Dilaurate                            | 77-58-7    | Experimental Biodegradation              | 39 days  | BOD                            | 23 %BOD/ThOD                      | OECD 301F - Manometric respirometry |
| Dibutyltin Dilaurate                            | 77-58-7    | Experimental Hydrolysis                  |          | Hydrolytic half-life (pH 7)    | ≤1 hours (t 1/2)                  |                                     |

|                              |          |                             |         |                               |                                    |                                   |
|------------------------------|----------|-----------------------------|---------|-------------------------------|------------------------------------|-----------------------------------|
| Triethylenediamine           | 280-57-9 | Experimental Biodegradation | 28 days | CO2 evolution                 | 7 %CO2 evolution/THCO2 evolution   | OECD 301B - Modified sturm or CO2 |
| Octamethylcyclotetrasiloxane | 556-67-2 | Experimental Biodegradation | 29 days | CO2 evolution                 | 3.7 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace            |
| Octamethylcyclotetrasiloxane | 556-67-2 | Experimental Photolysis     |         | Photolytic half-life (in air) | 31 days (t 1/2)                    |                                   |
| Octamethylcyclotetrasiloxane | 556-67-2 | Experimental Hydrolysis     |         | Hydrolytic half-life (pH 7)   | 69.3-144 hours (t 1/2)             | OECD 111 Hydrolysis func of pH    |

### 12.3 : Bioaccumulative potential

| Material                                          | CAS Number | Test type                                             | Duration | Study Type             | Test result | Protocol                       |
|---------------------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|--------------------------------|
| Glycerol<br>Poly(Oxyethylene, Oxypropylene) Ether | 9082-00-2  | Modeled Bioconcentration                              |          | Bioaccumulation factor | 2           | Catalogic™                     |
| Glycerol<br>Poly(Oxyethylene, Oxypropylene) Ether | 9082-00-2  | Modeled Bioconcentration                              |          | Log Kow                | -2.6        | Episuite™                      |
| Polypropylene Glycol Glycerol Triether            | 25791-96-2 | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | ≤7          |                                |
| Dimethyl Siloxane, Reaction Product with Silica   | 67762-90-7 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Diethylene Glycol                                 | 111-46-6   | Experimental Bioconcentration                         |          | Log Kow                | -1.98       |                                |
| Dipropylene Glycol                                | 25265-71-8 | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | 4.6         | OECD305-Bioconcentration       |
| Dipropylene Glycol                                | 25265-71-8 | Experimental Bioconcentration                         |          | Log Kow                | -0.462      | EC A.8 Partition Coefficient   |
| Dibutyltin Dilaurate                              | 77-58-7    | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | ≤110        | similar to OECD 305            |
| Dibutyltin Dilaurate                              | 77-58-7    | Experimental Bioconcentration                         |          | Log Kow                | 4.44        | OECD 107 log Kow shke flsk mtd |
| Triethylenediamine                                | 280-57-9   | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | <13         | OECD305-Bioconcentration       |
| Octamethylcyclotetrasiloxane                      | 556-67-2   | Experimental BCF - Fish                               | 28 days  | Bioaccumulation factor | 12400       | 40CFR 797.1520-Fish Bioaccumm  |
| Octamethylcyclotetrasiloxane                      | 556-67-2   | Experimental Bioconcentration                         |          | Log Kow                | 6.49        | OECD 123 log Kow slow stir     |

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

## SECTION 14: Transport Information

### Australian Dangerous Goods Code (ADG) - Road/Rail Transport

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable

**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Australian Inventory Status:**

All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product, Please contact 3M Australia on 136 136 for further details.

**Poison Schedule:** This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

## SECTION 16: Other information

**Revision information:**

Complete document review.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**